Amendments to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

Claims 1-43 (Canceled).

Claim 44 (Currently Amended): A method for analyzing an arthropod sample for the presence of one or more analytes associated with an arthropod-carried agent that causes a disease in mammals, said method comprising the steps of:

obtaining an arthropod sample suspected of containing arthropod-borne agents;

grinding the sample in solution to expose an analyte associated with the arthropod-carried agent such that the sample contains arthropod debris after grinding;

contacting the sample containing arthropod debris with a liquid permeable support and at least one detectable analyte-specific reagent that binds to the analyte to form an analyte-reagent complex;

allowing the liquid phase to move vertically upward through the support by capillary flow or wicking until the analyte or the analyte-specific reagent or the analyte-specific reagent complex binds to at least one capture reagent immobilized on the support; and

detecting the presence of the detectable analyte-specific reagent indicating the presence of the analyte in the sample.

wherein a plurality of detectable analyte-specific reagents for a plurality of arthropodcarried agents are employed and the support comprises a plurality of capture reagents immobilized onto a plurality of different detection areas.

- Claim 45 (Previously Presented): The method of claim 44, wherein the detectable analyte-specific reagent further comprises a detectable moiety selected from the group consisting of a colored moiety, a magnetic moiety, a radioactive moiety and an enzyme.
- Claim 46 (Previously Presented): The method of claim 44, wherein the detectable analyte-specific reagent is deposited on the support prior to contacting the sample.
- Claim 47 (Previously Presented): The method of claim 44, wherein at least three detectable analyte-specific reagents for at least three different arthropod-carried agents associated with human malaria are employed and the support comprises at least three capture reagents immobilized onto at least three different detection areas.
- Claim 48 (Withdrawn): The method of claim 44, wherein the arthropod-carried agent is a togavirus.
- Claim 49 (Withdrawn): The method of claim 48, wherein the togavirus is an encephalitis virus.
- Claim 50 (Withdrawn): The method of claim 48, wherein the togavirus is a flavivirus.
 - Claim 51 (Withdrawn): The method of claim 50, wherein the flavivirus is Dengue.
- Claim 52 (Withdrawn): The method of claim 51, wherein the flavivirus is an encephalitis virus.
- Claim 53 (Withdrawn): The method of claim 52, wherein the encephalitis virus is West Nile Fever.
- Claim 54 (Previously Presented): The method of claim 44, wherein the arthropod is a mosquito.

Claim 55 (Previously Presented): The method of claim 54, wherein the sample is homogenized with a grinding solution prior to contact with said support.

Claim 56 (Previously Presented): The method of claim 44, wherein the support further comprises a control area having immobilized therein at least one reagent suitable for capturing the detectable analyte-specific reagent.

Claim 57 (Withdrawn): The method of claim 44, further employing at least two detectable analyte-specific reagents, said reagents specific for a protein associated with *Plasmodium falciparum* circumsporozoite and a second specific for a protein associated with a *Plasmodium vivax* sporozoite and at least two different detection areas, on area having immobilized therein a capture reagent specific for the protein associated with *Plasmodium falciparum* sporozoite, and the second area having immobilized therein a capture reagent specific for the protein associated with a *Plasmodium vivax* sporozoite.

Claim 58 (Withdrawn): The method of claim 44, wherein the *Plasmodium* falciparum sporozoite is a *Plasmodium vivax* 210.

Claim 59 (Withdrawn): The method of claim 44, wherein the *Plasmodium* falciparum sporozoite is a *Plasmodium vivax* 247.

Claim 60 (Previously Presented): The method of claim 44, wherein the analyte-specific reagents are monoclonal antibodies.

Claim 61 (Previously Presented): The method of claim 44, wherein the detectable analyte-specific reagents are gold-antibody conjugates.

Claim 62 (Previously Presented): The method of claim 44, wherein the detectable analyte-specific reagents are colored latex-antibody conjugates.

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Claim 63 (Currently Amended): A method for analyzing an arthropod sample for the presence of one or more analytes associated with an arthropod-carried agent that causes a disease in mammals, said method comprising the steps of:

obtaining an arthropod sample suspected of containing arthropod-borne agents;

grinding the sample in solution to expose an analyte associated with the arthropod-carried agent such that the sample contains arthropod debris after grinding;

contacting the sample containing arthropod debris with a dipstick and at least one detectable analyte-specific reagent that binds to the analyte to form an analyte-reagent complex;

allowing the liquid phase to move through the dipstick until the analyte or the analyte-specific reagent or the analyte-specific reagent complex binds to at least one capture reagent immobilized on the dipstick; and

detecting the presence of the detectable analyte-specific reagent indicating the presence of the analyte in the sample.

wherein a plurality of detectable analyte-specific reagents for a plurality of arthropodcarried agents are employed and the support comprises a plurality of capture reagents immobilized onto a plurality of different detection areas.

- 64. (Previously Presented) The method of claim 63, wherein the detectable analyte-specific reagent further comprises a detectable moiety selected from the group consisting of a colored moiety, a magnetic moiety, a radioactive moiety and an enzyme.
- 65. (Previously Presented) The method of claim 63, wherein the detectable analyte-specific reagent is deposited on the support prior to contacting the sample.
- 66. (Withdrawn) The method of claim 63, wherein the arthropod-carried agent is a togavirus.
- 67. (Withdrawn) The method of claim 66, wherein the togavirus is an encephalitis virus.

- 68. (Withdrawn) The method of claim 66, wherein the togavirus is a flavivirus.
- 69. (Withdrawn) The method of claim 68, wherein the flavivirus is Dengue.
- 70. (Withdrawn) The method of claim 68, wherein the flavivirus is an encephalitis virus.
- 71. (Withdrawn) The method of claim 70, wherein the encephalitis virus is West Nile Fever.
- 72. (Previously Presented) The method of claim 63, wherein the arthropod is a mosquito.
- 73. (Previously Presented) The method of claim 63, wherein the sample is homogenized with a grinding solution prior to contact with said support.
- 74. (Previously Presented) The method of claim 63, wherein the support further comprises a control area having immobilized therein at least one reagent suitable for capturing the detectable analyte-specific reagent.
- 75. (Previously Presented) The method of claim 63, wherein the analyte-specific reagent is a monoclonal antibody.
- 76. (Previously Presented) The method of claim 63, wherein the detectable analyte-specific reagent comprises gold-antibody conjugates.
- 77. (Previously Presented) The method of claim 63, wherein the detectable analyte-specific reagents comprises colored latex-antibody conjugates.
- 78. (Previously Presented) The method of claim 63, wherein at least three detectable analyte-specific reagents for at least three different arthropod-carried agents

associated with human malaria are employed and the support comprises at least three capture reagents immobilized onto at least three different detection areas.

79. (Currently Amended) A method for analyzing an arthropod sample for the presence of one or more analytes associated with an arthropod-carried agent that causes a disease in mammals, said method comprising the steps of:

obtaining an arthropod sample suspected of containing arthropod-borne agents;

grinding the sample in solution to expose an analyte associated with the arthropod-carried agents such that the sample contains arthropod debris after grinding;

contacting the sample containing arthropod debris with a panel assay having capture reagents immobilized onto separate areas and detectable analyte-specific reagents specific for an analyte associated with each arthropod-borne agent to which the capture reagents are directed;

allowing the liquid phase to move vertically upward through the panel assay by capillary flow or wicking until the analyte or one of the analyte-specific reagents binds to one of the capture reagents; and

detecting the presence of the analyte-specific reagents indicating the presence of the analyte in the sample,

wherein a plurality of detectable analyte-specific reagents for a plurality of arthropodcarried agents are employed and the support comprises a plurality of capture reagents immobilized onto a plurality of different detection areas.

- 80. (Previously Presented) The method of claim 79, wherein one of the analyte-specific reagents further comprises a detectable moiety selected from the group consisting of a colored moiety, a magnetic moiety, a radioactive moiety and an enzyme.
- 81. (Previously Presented) The method of claim 79, wherein one of the detectable analyte-specific reagents is deposited on the support prior to contacting the sample.

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Claim 82 (Withdrawn): The method of claim 79, wherein one of the arthropod-carried agents is a togavirus.

Claim 83 (Withdrawn): The method of claim 82, wherein the togavirus is an encephalitis virus.

Claim 84 (Withdrawn): The method of claim 82, wherein the togavirus is a flavivirus.

Claim 85 (Withdrawn): The method of claim 84, wherein the flavivirus is Dengue.

Claim 86 (Withdrawn): The method of claim 84, wherein the flavivirus is an encephalitis virus.

Claim 87 (Withdrawn): The method of claim 86, wherein the encephalitis virus is West Nile Fever.

Claim 88 (Previously Presented): The method of claim 79, wherein the arthropod is a mosquito.

Claim 89 (Previously Presented): The method of claim 79, wherein the sample is homogenized with a grinding solution prior to contact with said panel assay.

Claim 90 (Previously Presented): The method of claim 79, wherein one of the analyte-specific reagents is a monoclonal antibody.

Claim 91 (Previously Presented): The method of claim 79, wherein one of the detectable analyte-specific reagents comprises gold-antibody conjugates.

Claim 92 (Previously Presented): The method of claim 79, wherein one of the plurality of detectable analyte-specific reagents comprises colored latex-antibody conjugates.

Claim 93 (New): A method for analyzing an arthropod sample for the presence of one or more analytes associated with an arthropod-borne agent that causes a disease in mammals, said method comprising the steps of:

obtaining an arthropod sample suspected of containing arthropod-borne agents;

grinding the sample in solution to expose an analyte associated with the arthropod-borne agent such that the sample contains arthropod debris after grinding;

contacting the sample containing arthropod debris with a liquid permeable support and at least one detectable analyte-specific reagent that binds to the analyte to form an analyte-reagent complex;

allowing the liquid phase to move through the support by capillary flow or wicking until the analyte or the analyte-specific reagent or the analyte-specific reagent complex binds to at least one capture reagent immobilized on the support; and

detecting the presence of the arthropod-borne agent on the liquid permeable support,

wherein the at least one detectable analyte-specific reagent is specific for one or more malarial analytes associated with *Plasmodium* sporozoite.

Claim 94 (New): The method of claim 93, wherein the at least one detectable analyte-specific reagent is specific for a protein associated with *Plasmodium falciparum* circumsporozoite and a protein associated with a *Plasmodium vivax* sporozoite.

Claim 95 (New): The method of claim 94, wherein the *Plasmodium falciparum* sporozoite is a *Plasmodium vivax* 210.

Claim 96 (New): The method of claim 94, wherein the *Plasmodium falciparum* sporozoite is a *Plasmodium vivax* 247.

Claim 97 (New): The method of claim 93, wherein the at least one detectable analyte-specific reagent further comprises a detectable moiety selected from the group consisting of a colored moiety, a magnetic moiety, a radioactive moiety and an enzyme.

Claim 98 (New): The method of claim 93, wherein the detectable analyte-specific reagent is deposited on the liquid permeable support prior to contacting the sample.

Claim 99 (New): The method of claim 93, wherein a plurality of detectable analyte-specific reagents for a plurality of different arthropod-carried agents associated with human malaria are employed and the liquid permeable support comprises a plurality of capture reagents immobilized onto a plurality of different detection areas.

Claim 100 (New): The method of claim 93, wherein the arthropod is a mosquito.

Claim 101 (New): The method of claim 100, wherein the sample is homogenized with a grinding solution prior to contact with the liquid permeable support.

Claim 102 (New): The method of claim 93, wherein the liquid permeable support further comprises a control area having immobilized therein at least one reagent suitable for capturing the at least one detectable analyte-specific reagent.

Claim 103 (New): The method of claim 93, wherein the at least one detectable analyte-specific reagent comprises a monoclonal antibody.

Claim 104 (New): The method of claim 93, wherein the at least one detectable analyte-specific reagent comprises a gold-antibody conjugate.

Claim 105 (New): The method of claim 93, wherein the at least one detectable analyte-specific reagent comprises a colored latex-antibody conjugate.